2021 ANNUAL REPORT - City of St. Catharines Distribution System

Drinking-Water System Number:
Drinking-Water System Name:
Drinking-Water System Owner:
Drinking-Water System Category:
Period being reported:

260003279
City of St. Catharines Distribution System
Corporation of the City of St. Catharines
Large Municipal Residential (pop. 133,000)
January 1 – December 31, 2021

Municipal Residential	
Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [] Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [] Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Designated Facilities served: Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No [] Number of Interested Authorities you report to: Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Not Applicable	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [] No [] Not Applicable



Indicate how you notified system users that your annual report is a	available, and is
free of charge.	
[X] Public access/notice via the web	
[X] Public access/notice via Government Office	
[] Public access/notice via a newspaper	
[X] Public access/notice via Public Request	
Public access/notice via a Public Library	
Public access/notice via other method	
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Describe your Drinking-Water System

The City of St. Catharines owns and operates a Class II stand-alone residential water distribution system. The City receives its drinking water from the Regional Municipality of Niagara's Decew Water Treatment Plant. The source water is surface water from Lake Erie via an intake from the Welland Ship Canal. The distribution system consists of approximately 605 kilometres of watermain, approximately 3,500 hydrants and over 5,600 valves.

Were any significant expenses incurred to?

[]	Install required equipment
[X]	Repair required equipment
[X]	Replace required equipmen

Please provide a brief description and a breakdown of monetary expenses incurred

In 2021, approximately \$7,980,000 was spent on watermain capital projects. This allowed for the installation of approximately 7.93 km of watermain.

In addition, the cost of watermain repairs in 2021 was approximately \$354,000.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date(s)	Date Resolved
Nov. 1, 2021	Total Coliform	1	cfu/100mL	Flush and resample	Nov. 2 and 4, 2021	Nov. 5, 2021
Dec. 14, 2021	No Data Overgrowth with Target Colonies Present			Flush and resample	Dec. 15 and 16, 2021	Dec. 17, 2021

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Distribution	1376	0	0-1	744	0->300

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure	
Chlorine	2302	0.06 – 1.76	mg/L	

Summary of lead testing under Schedule 15.1 during this reporting period

(Applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	5	<0.001	mg/L	0
Distribution	10	<0.001	mg/L	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (Note: show latest annual average)	Jan Dec. 2021	0.031	mg/L	0
HAA (Note: show latest annual average)	Jan Dec. 2021	0.0095	mg/L	0